

# Zefeng (Daniel) Wang

Availability: Full time January 2022 | *No sponsorship required*

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## EDUCATION

Northeastern University, Boston, MA

May 2021

Khoury College of Computer Sciences

GPA: 3.82/4.00

*Candidate for B.Sc. in Computer Science & Business Administration (Finance) | Minor in Mathematics*

**Relevant Courses:** Algorithms and Data, Object Oriented Design, Statistics and Stochastic Processes, Computer Systems

**Honors and Awards:** Dean's List, International Scholar, Top 10/Best Rookie Award at Hack Beanpot 2019

## COMPUTER KNOWLEDGE

**Languages:** JavaScript/TypeScript (NodeJS, React), Java, Python, HTML, CSS, Golang, SQL, C,

**Tools/Libraries:** Docker, Firebase, Google Cloud (Firestore, Functions, Storage), JUnit, Kubernetes, Unix, NumPy, pandas

**Miscellaneous:** Git, GitHub, JSON, npm, RESTful APIs, XML, YAML

## EXPERIENCE

*(Incoming) Fall Software Engineering Intern @ Tesla*

*September – December 2021*

**Engineering Summer Analyst @ Goldman Sachs**

*June – August 2021*

- Productionized financial reporting program and conducted user acceptance testing with product owner
- Revamped API queries to ensure data is highly available using internal modelling/functional language (PURE)
- Reduced complexity by abstracting two programs and leveraging caching to decrease flakiness and improve speed by 30% for calculation program (IgnitePad)

**Software Developer Co-op @ Intuit**

*May – December 2020*

- Improved accessibility of metrics using Java and Go on the Observability team for QuickBooks Online product
- Developed API in Go by implementing schema & CRUD functions on a MySQL database, configuring Elasticsearch index to improve search efficiency, and setting up infrastructure for Kubernetes cluster
- Used Micrometer and Hystrix (Java Spring) to create a filter for unnecessary data to improve readability of metrics
- Adopted Spring's aspect-oriented programming to annotate metrics and decrease code complexity via abstraction

**Backend Web Engineer @ BusRight, Inc**

*November 2019 – November 2020*

- Improved web API by adding new features, enforcing test-driven development, and increasing efficiency
- Developed password reset process by adding functionality to get info from database & send emails via SendGrid
- Enforced persistent notifications by writing endpoints to get/send notifications to collections in Cloud Firestore
- Added Cloud Functions for daily database backup and profile picture functions triggered on user deletion/creation

**Project Lead, Developer @ Sandbox at Northeastern**

*September 2019 - Present*

- Led team of five to build web-based game application for research client used in study with >200 participants
- Created mobile application for research client to study memory in older populations using React Native and Expo
- Implemented changes to SearchNEU, to ensure accurate, durable, and accessible data for over 50,000 users

**Core Team – Sponsorship, Tech @ HackBeanpot Inc**

*May 2019 – Present*

- Engaged in agile environment to organize annual hackathon for approximately 200 Boston students
- Led team of three in revamping judging system for students' projects to be more holistic and efficient
- Devised sponsorship packet and worked with dozens of companies to raise over \$20,000 in financial backing
- Improved existing systems by developing products such as scheduling algorithm, full-stack web app for event registration, and interactive packet using technology such as React, Gatsby.js, and NextJS

## PROJECTS

**GratitudeNU** (TypeScript, NextJS, NestJS, PostgreSQL)

*January – April 2021*

- Developed full-stack application for users to play game together concurrently using NestJS Server-Sent Events
- Implemented API using NestJS (Express.js) service/controller architecture to handle multiple users' interactions
- Designed UI in NextJS (React) including an interactive game interface and React hook for managing sockets

**MGH Video Journal** (React Native, TypeScript)

*December 2020 – January 2021*

- Built mobile app using React Native that allows study participants to record videos that are uploaded to Dropbox
- Implemented Google Cloud Function to authenticate users and sends files from Cloud Storage via Dropbox API

**SearchNEU** (NodeJS, React, TypeScript)

*September 2019 – August 2020*

- Migrated data to relational database (PostgreSQL) by creating data models using Sequelize ORM
- Developed toggle and dropdown components in React to improve loading times ~30x and enable filtered search
- Refactored web scraper using Cheerio (jQuery) and enforced reliability using Jest framework and snapshot testing